

Appendix A. Caveats

The major changes in version 2.0 compared to version 1.5 are that emissions for the Event data category have been included for the first time, and the entire Onroad data category, except for California, was replaced with EPA-MOVES estimates that included use of S/L agency inputs where available. Emissions values for mercury have also been included in v2.0. Fifteen States and one local agency provided batch file updates to their point emissions, and thirteen State and one local agency provided batch updates to their nonpoint emissions. In addition to the batch updates, other agencies may have edited individual emissions values on-line via the use of the EIS Gateway. Some of these S/L/T updates were the result of EPA reviews of high risk facilities (as identified by the 2005 NATA study) and of an EPA review to identify missing mercury emissions for key categories, including EAFs, MWCs, hazardous waste incinerators and portland cement plants. All revisions received through November 20, 2011 have been included in v2.0. In addition to S/L/T agency updates, EPA updated and developed several datasets containing estimates for Hg and other HAPs for use in gap filling missing emissions; these datasets primarily targeted the high risk facilities and key Hg categories mentioned above.

As with the earlier versions, version 2.0 does not include any emissions for dioxins or furans, which were reported by some S/L/T agencies. USEPA has not evaluated the completeness or accuracy of the reported dioxin and furan values, and does not have plans to supplement these reported emissions with other data sources in order to compile a complete estimate for dioxin and furans as part of the NEI. Less detailed, top-down type estimates for dioxins and furans may be available from other USEPA sources, not necessarily for the year 2008.

The following Table A-1 through Table A-5 list caveats about the 2008 NEI data for current and past versions. With each table focused on a different EIS category (point, nonpoint, onroad mobile, nonroad mobile, and events). Where past issues have been resolved, the tables include a description of the resolution or improvements made to eliminate the caveat.

In addition, Table A-6 summarizes the 2008 S/L/T agency emissions data were dropped during the EIS selection for processes for which the last process year is less than 2008. The last process year indicates the last year the process was in operation so the software did not pick up these emissions for use in the 2008 NEI. In the future, emissions will not be accepted if the last process year is prior to the inventory year.

Finally, Table A-7 summaries an error that occurred in Connecticut and Douglas county Nebraska. As explained in Section 3.1.1 of the main document, the selection order should have placed the EPA EGU v1.5 dataset ahead of the "EPA PM Augmentation, v2" dataset since the "EPA PM Augmentation, v2" values are computed based on S/L/T-submitted PM. We intended to use the complete set of PM from the EGU v1.5 dataset for all PM species for these two jurisdictions, but this is not what happened. In summary, for Douglas Nebraska, the error does not affect primary (i.e., total) PM_{2.5} or primary PM₁₀; it affects only the filterable and condensable species. For Connecticut, primary PM_{2.5} is expected to be underestimated by 191 tons; the primary PM₁₀ is not affected by the error.

Table A-1: Point data category caveats and status

	NEI 2008 Identified Issues	NEI 2008 v2.0 Status	Notes and future plans
1	IN, MD, NE, SD and Lincoln/Lancaster provided limited or no submittals	resolved in v1.5	
1A	SD provided no 2008 emissions for any data category	identified in v1.0; unresolved	
2	GA overwrote their 2008 emissions with 2009 emissions	resolved in v1.5	IN, MD, NE, and Lincoln/Lancaster have provided data for v1.5
2A	It is possible but not definite that some GA PM emissions that are reported as PRI may only be the FIL portion	identified in v1.5; unresolved	SD has not provided any 2008 emissions for any data category
3	Calif reported PM(no size cut) as "PM-CON"	resolved in v1.5	GA has re-submitted 2008 emissions for v1.5
4	individual emissions values identified as incorrect [TVA-Shawnee Pb; Louisville agency reported site-level HAPs allows double-counting; MA-Brayton Pt Pb; 4 airports Pb and other pollutant values;]	resolved in v1.5	
4A	Lead emissions for Dragon Products in Thomaston, Maine were reported in NEI v1 at 34,545 LBS, but revised to 6 LBS in v1.5; Lead emissions for Calgon Corp in Catlettsburg, Kentucky were reported at 12,597 LBS in v1, now 6.3 lbs in v1.5; 1,4-dichlorobenzene emissions at a wastewater treatment in Virginia Beach, Virginia were reported as 252,638 LBS in NEI v1, revised to 4 LBS in v1.5. Acrylonitrile emissions at Solutia in Decatur, Alabama were reported as 563,842 LBS, revised to 66,774 LBS in v1.5.	resolved in v1.5	Calif has submitted corrections to remove PM(no size cut) for v1.5
4B	Lead emissions at some coal-fired EGUs have been estimated using the AP-42 EF of 4.2 E-4 lbs/ton by either USEPA's dataset or by S/L/T reports. This is approximately an order of magnitude larger than the EF used for the 2005 NEI v3.	identified in v1.5; resolved in v2.0	All values have been corrected for v1.5
4C	PM-CON estimates by USEPA for several coal-fired EGUs did not account for presence of an SO2 control system, which would lower PM-CON emissions by an order of magnitude. If S/L/Ts reported emissions for these units, the S/L/T values would be used, but the USEPA values appear in the NEI v1 where S/L/Ts did not report PM-CON.	resolved in v1.5	Some additional suspect values were found in v1.5 data and mostly resolved by S/L/Ts before v1.5 release.
5	1307 individual emissions value high outliers were zeroed out by EPA overwrite file. 1061 of these were a single pollutant from aircraft exhaust SCCs due to an errant EF publication.	mostly resolved in v1.5; additional revisions in v2.0	EPA EGU dataset was revised to remove EPA estimates for lead for v1.5, but several State-reported values still based upon simple AP-42 EF that is questionable based upon more recent testing for Utility MACT. In v2.0 we used an EPA MATS dataset which included lead (Pb) emissions based on the Utility MACT testing for all Utility MACT-regulated units ahead of the S/L reported data.
6	EPA PM Augmentation dataset was not used	resolved in v1.5	The EPA EGU dataset was corrected for v1.5
7	TX had some problem with some PM size cuts not being reported	resolved in v1.5	Some revisions (and therefore removals of EPA overwrite zero values) were made as part of S/L v1.5 and v2.0

	NEI 2008 Identified Issues	NEI 2008 v2.0 Status	Notes and future plans
			submittals, and some S/L/T emissions were confirmed as valid.
8	HAP Aug added o-xylenes where S/L had reported xylenes-mixed	identified in v1.0; resolved in v2	PM Aug dataset was used in v1.5; PM Aug file was re-done for v2.0 to account for all S/L/T data submittals used in v2.
9	Landfills were not estimated by EPA for v1.0; some states reported as point, some provided NP; some both	identified in v1.0; unresolved	TX has submitted corrections for v1.5
10	Site-level Latitude-Longitudes do not agree with reported FIPS counties for 3581 facilities. 1441 are in Calif, and 1001 of those have identical coordinates just east of the Salton Sea, but FIPs counties and addresses indicate they are in several other counties.	identified in v1.0; resolved in v2	HAP augmentation was redone for v2 and no pollutants belonging to pollutant groups were added if any member of the group was reported by an SLT
11	Release Point Latitude/Longitudes not checked	identified in v1.0; resolved in v2	many EIAG landfills identified as duplicates of S/Ls; locations of others are most often county centroids
12	Consistency of stack velocities with flows not checked	identified in v1.0; unresolved	Discrepancies between Lat-Lon and FIPs Counties resolved for all except three facilities via S/L agency review and EPA revision as part of v2. Lat-Lons have been verified correct where discrepancies with County FIPs still exist. Any site Lat-Lons more than 5 miles outside of county boundaries for facilities of 10 tpy sum of all pollutants were individually reviewed via Google maps.
13	PM2.5 > PM10 not checked	resolved in v1.5	All release points greater than 10 tpy sum of all pollutants and greater than 0.1 degrees different (sum of absolute latitude degrees difference plus absolute longitude degrees difference) in continental US have been individually reviewed via Google maps to confirm that they are reasonable and that the facilities are geographically large, typically military bases, mining operations, and occasionally petrochemical plants.
14	HAP VOC > VOC not checked	identified in v1.0; unresolved	
15	TRI aug - ok in v1, but not updated for v1.5	identified in v1.5; resolved	PM Aug v1.5 and v2.0 files address.
16	CEM and IPM matching not included	identified in v1.0; partially resolved in v2	
17	duplicate facilities in Calif - probably without emissions; incorrect NAICs, SCCs in Calif	identified in v1.0; unresolved	TRI Aug file was entirely re-done and replaced in v2, accounting for any updated S/L/T submittals included in v2,

	NEI 2008 Identified Issues	NEI 2008 v2.0 Status	Notes and future plans
			and adding TRI data not previously used in v1.5 for high risk facilities and Hg for the key categories. In addition, an outlier check was done on key HAPs resulting in exclusion of some TRI data used in v1.5.
18	A small amount of S/L/T-reported emissions were not selected for use in version 2.0 because the Emission Process that they were reported for also had a Last Inventory Year earlier than "2008", indicating the process had been shut down prior to 2008 and should not have any emissions. See Table A-6 for a summary of these emissions.	identified in v2.0; unresolved	IDs for matching to hourly CEM data from CAMD datasets have been added and are exported to the SMOKE file. IPM IDs have been added for all of these CEM units (to allow the export to SMOKE), but additional, non-CEM units but included in IPM's future year projection of emissions likely exist without indication that they will be projected by IPM.
19	PM2.5-PRI from EGUs in CT underestimated by 190 tpy and PM2.5-FIL and PM10-FIL underestimated for Douglas County, Nebraska, due to the order of selection for the NEI putting the EPA PM Augmentation dataset ahead of the EPA EGU dataset. The EPA PM Augmentation dataset was based on the S/L agencies emissions, which were placed lower than the EPA EGU dataset due to underreported emissions and facility-level reports. See Table A-7 for a summary of these emissions.	identified in v2.0; unresolved	
20	Mercury emissions from point source boilers/process heater category are underestimated by 0.5 tpy due to the EPA HAP Augmentation file not including mercury estimates for these units that had PM10-FIL emissions but no mercury emissions in S/L/T files.	identified in v2.0; unresolved	QA checks have been revised to not allow emissions to be reported for a shutdown process and to not allow a process to be shutdown if emissions already exist. The 2008 records with the inconsistency will be revised by removing the Last inventory Year.
21	mercury emissions for ARIZONA PORTLAND CEMENT COMPANY (EIS ID = 863211) should be 54.6 pounds for the year 2008. The 2008 v2 value is reported as 0.9334 lbs due to an inadvertant use of the 1991 stack test data instead of the more accurate 2007 stack test data.	identified in v2.0; unresolved	
22	emissions for off-shore oil and gas platforms in federal waters not included in versions before v2.0.	identified and resolved in v2.0.	
23	Coke oven emissions missing from some facilities with coke oven batteries	identified in v1.5; resolved	
24	Some chromium emissions were not speciated as had been intended.	identified in v1.5; resolved	
25	EPA Region 2 identified missing benzene and coke oven emissions for TONAWANDA COKE CORP (EIS ID=7762811) based on testing at the facility	identified and resolved in v2.0.	
26	The allocation approach for TRI data assigns facility-wide HAP emissions to EIS processes by using a criteria pollutant as a surrogate (see Section 3.1.4). The resulting allocation approach has the disadvantage of assigning HAPs to processes that may not actually have those HAP emissions.	Ongoing, procedural issue	This caveat is a basic limitation of use of facility-wide TRI data. While the TRI augmentation process may be modified, the allocation of these HAP emissions to the processes is best done by the facilities through the state submissions.

Table A-2: Nonpoint data category caveats and status

	NEI 2008 Identified Issues	NEI 2008 v2.0 Status	Notes and future plans
0	The NonPoint data category was not included in v1	resolved in v1.5	
1	Selection from "overlapping" alternative SCCs reduced S/L emissions	mostly resolved in v1.5; resolved in v2.0	v1.5 uses all S/L data except where we have an EPA dataset; and where EPA and S/L datasets conflict we coordinated with S/L/Ts to revise or deleted EPA estimates to avoid selecting. Some additional cases of double-counted (EPA and S/L/T) emissions were identified after v1.5 release and were corrected in v2.0.
2	No Animal NH3 estimates by EPA	resolved in v1.5	EPA estimates are available for v1.5
3	No Agricultural Tilling PM emissions estimates by EPA	identified in v1.0; resolved in v2.0	Agricultural Tilling emissions were created by EPA and selected where S/L/T data did not exist.
4	EPA PM Augmentation dataset was not used	resolved in v1.5	A NonPoint PM Aug dataset was created and used for v2
5	Both EPA and S/L estimates for Rail and Comm Marine Vessels included due to shape files vs county reporting	resolved in v1.5	new selection override software used to select only EPA datasets for six SCCs only.
6	some duplication of CMV due to use/non-use of emiss type; particularly affects chromium in EPA's speciation dataset	resolved in v1.5	
7	a couple S/Ls reported rail yards in non-point; EPA included the largest rail yards in point, resulting in possible double-counting in the nonpoint values had not been adjusted to exclude the point rail yards.	identified in v1.0	EPA's rail yard estimates are point sources, but are known to under-represent the rail yard universe. Therefore SLT nonpoint rail yard submittals were not overwritten nor adjusted to account for yards in the same county. The result is that 29 counties in CA, DC, MD, OR and Maricopa Co, AZ have both EPA point and SLT nonpoint rail yard emissions that may duplicate.
8	two extra datasets show up in selection that were not included in criteria	resolved in v1.5	selection software revised to empty out existing selection files before a re-select begins.
9	filterable and primary PM may be selected from two different datasets, and so may be inconsistent	identified in v1.0; resolved in v2.0	Much of the inconsistency in previous versions is corrected in v2 by a PM Augmentation dataset that created missing PM species values from S/L/T agency fugitive dust by setting PM-CON equal to 0.
10	EPA used a corrections file to select EPA values rather than S/L values that	resolved in	EPA estimates for Residential Wood Combustion were

	NEI 2008 Identified Issues	NEI 2008 v2.0 Status	Notes and future plans
	were considered suspect	v1.5	used for NY instead of State data; metals from fugitive dust sources in Calif were also zeroed out in v1.5; also OH - cremation - unspecified pollutants; CA vinyl chloride from landfills; and DE paved roads for several metals and PAHs.
11	Some instances where S/L values were considered suspect high were not corrected or nulled out - CA SO2 from CMV; WI furans; MD dioxins; MN formaldehyde for residential waste burning; ID furans; MI - cremation - chrome III	identified in v1.0	
12	No Agricultural Pesticide or Mining and Quarrying PM emissions estimates by EPA	identified and resolved in v2.0	Emissions for these sectors were created by EPA and selected where S/L/T data did not exist.
13	Some chromium emissions were not speciated as had been intended.	identified in v1.5; resolved	Goal in NEI is to have only the speciated chromium; this chromium speciation had previously been done in the modeling step and is now being done in the inventory.
14	County 35029 (Luna County, NM) has an overestimate for NH3 for SCC = 2801700010 (agric - Crops /Fertilizer Application /N-P-K (multi-grade nutrient fertilizers), as included in an EPA dataset and used for the 2008 NEI selection. The 2008 NEI v2 shows 6952 tons of NH3, while the actual value should be 6.95 tons.	identified in v2.0; unresolved	

Table A-3: Onroad data category caveats and status

	NEI 2008 Identified Issues	NEI 2008 v2.0 Status	Notes and future plans
1	Both Calif and EPA datasets were included in the v1 selection, resulting in double-counting of most emissions.	resolved in v1.5	EPA dataset for Calif had been removed prior to v1. V1 and v1.5 and v2 all use Calif data, with dissimilar SCC coverage from the USEPA datasets for all other States
2	EPA onroad estimates do not include PAH emissions for any States. Calif reported dataset does include PAH, and they were included in v1.	resolved in v1.5	EPA corrections file has been updated to select zeros for PAH emissions in Calif in v1.5
3	EPA did not exclude any submitted data based on magnitude of emissions. Therefore some agency-provided emissions may be high or low compared to similar geographic areas.	resolved in v1.5; onroad replaced in v2.0	
4	Calif dataset values for PAH, xylenes and chromium were overwritten with zeroes because they only occur in California and could lead to a misrepresentation in national totals. However, these pollutants could be speciated into ones that match rest of US.	identified in v2.0 unresolved	EPA's outlier analysis flagged and excluded pollutant/emission type combinations that are not generated by EPA. Since California reported PAHs as "total PAH" and not the individual PAHs that are generated by EPA, EPA treated it as an outlier. Similarly, California reported the xylenes as o-Xylene, m-Xylene and p-Xylene whereas EPA grouped them under "Xylenes (Mixed Isomers)". Also, California chromium was reported as unspciated, it was flagged as an outlier.
5	Sulfur dioxide emissions and sulfate emissions are incorrectly inflated in states other than California. This also overestimates emissions of total PM2.5 and total PM10 (since those totals include sulfates). This overestimate was due to a mistake in the default values for sulfur levels in 2008 diesel fuels. The magnitude of the error varies by county, depending on the ratio of the modeled and the actual diesel sulfur levels. Diesel fuel levels should have been closer to 15ppm sulfur because of the Ultra Low Sulfur Diesel rulemaking phase-in, rather than the average of ~100ppm actually included. This error did not significantly affect total emissions from diesel vehicles, but it caused the calculated values for SO2 and SO4 emissions for diesel vehicles to be too high.	identified in v2.0 unresolved	This issue has been fixed in EPA's internal MOVES database so that it is available for use in other efforts.

Table A-4: Nonroad data category caveats and status

	NEI 2008 Identified Issues	NEI 2008 v2.0 Status	Notes and future plans
1	Both Calif and EPA datasets were included in the v1 selection, resulting in double-counting of most emissions.	resolved in v1.5	EPA dataset for Calif had been removed prior to v1. V1 and v1.5 and v2 all use Calif data, with dissimilar SCC coverage from the USEPA datasets for all other States
2	Nashville corrections were not included in EPA corrections file	resolved in v1.5	EPA corrections file was updated to zero out some Nashville inconsistent data in v1.5
3	EPA did not exclude any submitted data based on magnitude of emissions. Therefore some agency-provided emissions may be high or low compared to similar geographic areas.	resolved in v1.5	

Table A-5: Events data category caveats and status

	NEI 2008 Identified Issues	NEI 2008 v2.0 Status	Notes and future plans
1	Tribal data were included as submitted by the Tribes. No attempts were made to avoid the possible double count that would occur with the probable overlap of EPA data (and maybe with State data) and Tribal reported data. To do this, accurate shape files for the various Tribal lands would be required.	new in v2.0	
2	EPA's methods for fires, which rely heavily on satellite data, generally do not capture the smaller fires (generally not less than 100 acres), and thus the EPA estimates for acres burned and the emissions are likely low in most cases. The same can be said for interference to remote sensing caused by excess cloud cover and/or canopy cover.	new in v2.0	

Table A-6: S/L/T Agency Emissions Dropped from Point Sources Due to the Process End Year Date

State	Pollutant Name	Emissions	Unit of Measure
AL	1,1,2-Trichloroethane	2.8	LB
	1,2,4-Trichlorobenzene	34.7	LB
	Acetaldehyde	1535.7	LB
	Acrolein	10	LB
	Benzene	248.4	LB
	Beryllium	0.4	LB
	Cadmium	44.6	LB
	Carbon Disulfide	152.6	LB
	Carbon Monoxide	29.965	TON
	Carbon Tetrachloride	2.8	LB
	Chlorobenzene	41.6	LB
	Chloroform	3.3	LB
	Cresol/Cresylic Acid (Mixed Isomers)	5781.6	LB
	Ethylene Dichloride	138.8	LB
	Formaldehyde	2471.5	LB
	Hexane	11.9	LB
	Hydrochloric Acid	13875.8	LB
	Lead	0.0023	TON
	Manganese	57.4	LB
	Methanol	7992.7	LB
	Methyl Chloroform	0.1	LB
	Methyl Isobutyl Ketone	108.7	LB
	Methylene Chloride	138.8	LB
	m-Xylene	99.4	LB
	Naphthalene	37.9	LB
	Nickel	8.2	LB
	Nitrogen Oxides	139.405	TON
	o-Xylene	247.5	LB
	Phenol	3218.3	LB
	PM10 Filterable	31.9915	TON
	PM2.5 Filterable	22.1475	TON
	Selenium	2.6	LB
	Styrene	3.1	LB
	Sulfur Dioxide	9.27685	TON
	Tetrachloroethylene	0.1	LB
	Toluene	21.1	LB
	Trichloroethylene	0.2	LB
	Volatile Organic Compounds	244.5848	TON
AZ	PM10 Filterable	37.22	TON
CA	1,1,2,2-Tetrachloroethane	0.331207	LB
	1,1,2-Trichloroethane	0.216441	LB
	1,2-Dimethoxyethane	13.478	LB
	1,2-Propylenimine	0.15	LB
	1,3-Butadiene	1138.395	LB
	1,3-Dichloropropene	0.164271	LB
	1,4-Dichlorobenzene	254.1772	LB
	2,2,4-Trimethylpentane	7.708967	LB
	2,3,4,6,7,8-Hexachlorodibenzofuran	0.000149	LB
	2,3,4,7,8-Pentachlorodibenzofuran	0.000608	LB
	2,3,7,8-Tetrachlorodibenzofuran	6.43E-05	LB
	2,4-Dinitrophenol	0.861237	LB
	2,4-Toluene Diisocyanate	29.32555	LB
	3-Methylcholanthrene	0.027148	LB
	4,4'-Methylenediphenyl Diisocyanate	654.1446	LB
	4-Nitrophenol	0.604697	LB
	7,12-Dimethylbenz[a]Anthracene	0.2083	LB
	Acenaphthene	0.956204	LB
	Acenaphthylene	9.721305	LB
	Acetaldehyde	31365.41	LB
	Acrolein	4302.051	LB
	Acrylic Acid	10.95	LB

State	Pollutant Name	Emissions	Unit of Measure
	Acrylonitrile	0.218011	LB
	Ammonia	1264.665	TON
	Anthracene	1.646461	LB
	Antimony	0.101597	LB
	Arsenic	553.902	LB
	Asbestos	0.278528	LB
	Benz[a]Anthracene	1.801633	LB
	Benzene	19629.92	LB
	Benzo[a]Pyrene	3.424995	LB
	Benzo[b]Fluoranthene	1.161312	LB
	Benzo[g,h,i]Perylene	0.292303	LB
	Benzo[k]Fluoranthene	1.307951	LB
	Benzyl Chloride	0.068287	LB
	Beryllium	10.21753	LB
	Bis(2-Ethylhexyl)Phthalate	30.76401	LB
	Bromoform	1.34E-06	LB
	Cadmium	163.6023	LB
	Carbon Disulfide	0.000133	LB
	Carbon Monoxide	379.1549	TON
	Carbon Tetrachloride	2200.136	LB
	Carbonyl Sulfide	9819.021	LB
	Cellosolve Acetate	441.755	LB
	Cellosolve Solvent	484.691	LB
	Chlorine	15419.81	LB
	Chlorobenzene	53.85985	LB
	Chloroform	3616.921	LB
	Chromium (VI)	26.89842	LB
	Chrysene	0.183008	LB
	Coal Tar	20.1	LB
	Cobalt	18.62348	LB
	Cresol/Cresylic Acid (Mixed Isomers)	0.453605	LB
	Cumene	2.477469	LB
	Dibenzo[a,h]Anthracene	1.139375	LB
	Dibutyl Phthalate	528.959	LB
	Diethylene Glycol Monobutyl Ether	1561.64	LB
	Diethylene Glycol Monoethyl Ether	1.8	LB
	Diethylene Glycol Monomethyl Ether	244.48	LB
	Dimethyl Sulfate	11.7	LB
	Epichlorohydrin	0.238244	LB
	Ethyl Benzene	10596.7	LB
	Ethylene Dibromide	8.094498	LB
	Ethylene Dichloride	91.68128	LB
	Ethylene Glycol	535.1674	LB
	Ethylene Glycol Methyl Ether	33.65	LB
	Ethylene Glycol Monomethyl Ether Acetate	0.35	LB
	Ethylene Oxide	1170.64	LB
	Ethylidene Dichloride	0.321218	LB
	Fluoranthene	3.842513	LB
	Fluorene	1.717748	LB
	Formaldehyde	31040.01	LB
	Glycol Ethers	7753.261	LB
	Hexachlorobenzene	4.413673	LB
	Hexamethylene Diisocyanate	185.2749	LB
	Hexane	64585.95	LB
	Hydrochloric Acid	73436.31	LB
	Hydrogen Cyanide	43249.64	LB
	Hydrogen Fluoride	925.1376	LB
	Hydrogen Sulfide	467.735	TON
	Hydroquinone	0.5503	LB
	Indeno[1,2,3-c,d]Pyrene	0.196711	LB
	Isophorone	93.617	LB
	Lead	1.140998	TON
	Maleic Anhydride	146.5844	LB
	Manganese	11595.98	LB

State	Pollutant Name	Emissions	Unit of Measure
	Mercury	499.8706	LB
	Methane	1.140171	TON
	Methanol	108962.8	LB
	Methyl Chloroform	12308.18	LB
	Methyl Isobutyl Ketone	8571.258	LB
	Methyl Methacrylate	230	LB
	Methyl Tert-Butyl Ether	156.7463	LB
	Methylene Chloride	8422.279	LB
	m-Xylene	74.19238	LB
	N,N-Dimethylformamide	18.21824	LB
	Naphthalene	2810.32	LB
	Nickel	577.8424	LB
	Nitrobenzene	0.04242	LB
	Nitrogen Oxides	560.1415	TON
	o-Cresol	56.7	LB
	o-Xylene	46.15284	LB
	PAH, total	470.7667	LB
	p-Dioxane	178.6325	LB
	Pentachlorophenol	2.22E-07	LB
	Phenanthrene	11.06795	LB
	Phenol	5666.677	LB
	Phosphine	1877.99	LB
	Phosphorus	1970.076	LB
	Phthalic Anhydride	884.588	LB
	PM10 Primary (Filt + Cond)	217.3876	TON
	PM2.5 Primary (Filt + Cond)	89.35156	TON
	Polychlorinated Biphenyls	0.000111	LB
	Propyl Cellosolve	1581.805	LB
	Propylene Dichloride	0.167912	LB
	Propylene Oxide	651.9727	LB
	p-Xylene	25.56801	LB
	Pyrene	3.509906	LB
	Radionuclides (Including Radon)	21.69897	LB
	Radon-222	17.7804	LB
	Selenium	515.9363	LB
	Styrene	93066.47	LB
	Sulfur Dioxide	332.7609	TON
	Tetrachloroethylene	5467.148	LB
	Toluene	82244.37	LB
	Trichloroethylene	1374.472	LB
	Vinyl Acetate	0.042059	LB
	Vinyl Chloride	61.81174	LB
	Vinylidene Chloride	72.33645	LB
	Volatile Organic Compounds	460.3869	TON
	Xylenes (Mixed Isomers)	63827.96	LB
CT	Carbon Monoxide	0.42	TON
	Nitrogen Oxides	0.5	TON
	PM10 Primary (Filt + Cond)	0.838	TON
	Sulfur Dioxide	0.003	TON
IL	Ammonia	0.14	TON
	Carbon Monoxide	3.74	TON
	Nitrogen Oxides	4.45	TON
	PM Condensable	0.255	TON
	PM10 Filterable	0.085	TON
	PM10 Primary (Filt + Cond)	0.34	TON
	PM2.5 Filterable	0.085	TON
	PM2.5 Primary (Filt + Cond)	0.34	TON
	Sulfur Dioxide	0.025	TON
	Volatile Organic Compounds	4.78358	TON
ME	Acetaldehyde	136.82	LB
	Acrolein	136.82	LB
	Ammonia	0.15592	TON
	Arsenic	0.2164	LB
	Benzene	50.284	LB

State	Pollutant Name	Emissions	Unit of Measure
	Cadmium	0.1624	LB
	Carbon Monoxide	0.9745	TON
	Chromium (VI)	0.02948	LB
	Cobalt	0.08196	LB
	Formaldehyde	13.644	LB
	Lead	0.000657	TON
	Manganese	0.3242	LB
	Mercury	0.1624	LB
	Methane	0.010135	TON
	Nickel	0.1624	LB
	Nitrogen Oxides	13.643	TON
	Nitrous Oxide	0.050674	TON
	PAH, total	1.286	LB
	PM10 Filterable	3.27432	TON
	PM2.5 Filterable	0.048726	TON
	Sulfur Dioxide	13.8379	TON
	Volatile Organic Compounds	0.03898	TON
MO	Ammonia	0.086	TON
	Antimony	0.25	LB
	Benzene	0.99	LB
	Cadmium	0.51	LB
	Carbon Monoxide	3.1995	TON
	Chloroform	0.04	LB
	Ethyl Benzene	4.14	LB
	Ethylene Dichloride	0.98	LB
	Ethylene Glycol	12	LB
	Formaldehyde	0.72	LB
	Hexane	295.41	LB
	Lead	0.256655	TON
	Manganese	6925	LB
	Methanol	112.98	LB
	Methyl Isobutyl Ketone	22.05	LB
	Methylene Chloride	285.5	LB
	Nitrogen Oxides	5.9866	TON
	PM10 Primary (Filt + Cond)	3.28	TON
	PM2.5 Primary (Filt + Cond)	0.3705	TON
	Sulfur Dioxide	0.2682	TON
	Toluene	0.12	LB
	Vinyl Acetate	822	LB
	Volatile Organic Compounds	0.9043	TON
	Xylenes (Mixed Isomers)	326.03	LB
NC	Carbon Monoxide	0.047	TON
	Nitrogen Oxides	0.056	TON
	Volatile Organic Compounds	16.56	TON
WA	Acetaldehyde	21	LB
	Formaldehyde	9	LB
	Methanol	1292	LB
	Phenol	48	LB
	Volatile Organic Compounds	1	TON

Table A-7: PM Emissions Errors for EGUs in Connecticut and Douglas County Nebraska due to Selection Order

EIS Identifier	EIS Process Identifier	SCC	Site Name	Pollutant	EGUv15 (tons)	PMAUG (tons)	2008v2 (tons)	tonnage error diff (neg means v2 was under estimated)
2708911	48324714	20100201	MILFORD POWER CO, LLC	PM25-PRI	0.88	23.84	23.84	22.96
2708911	48325014	20100201	MILFORD POWER CO, LLC	PM25-PRI	0.99	15.78	15.78	14.79
2766111	48207514	10101204	EXETER ENERGY L.P.	PM10-FIL	4.50	6.40	6.40	1.90
2766111	48207514	10101204	EXETER ENERGY L.P.	PM25-FIL	1.50	5.90	5.90	4.40
2766111	48207514	10101204	EXETER ENERGY L.P.	PM25-PRI	3.60	6.11	6.11	2.51
2766111	48207514	10101204	EXETER ENERGY L.P.	PM-CON	2.10	0.20	0.20	-1.90
2766111	48207814	10101204	EXETER ENERGY L.P.	PM10-FIL	5.70	6.88	6.88	1.18
2766111	48207814	10101204	EXETER ENERGY L.P.	PM25-FIL	1.90	6.48	6.48	4.58
2766111	48207814	10101204	EXETER ENERGY L.P.	PM25-PRI	3.30	6.70	6.70	3.40
2766111	48207814	10101204	EXETER ENERGY L.P.	PM-CON	1.40	0.22	0.22	-1.18
552611	48211214	10100404	MONTVILLE POWER, LLC	PM10-FIL	0.54	0.00	0.00	-0.54
552611	48211214	10100404	MONTVILLE POWER, LLC	PM25-FIL	0.50	0.00	0.00	-0.50
552611	48211214	10100404	MONTVILLE POWER, LLC	PM25-PRI	1.73	0.00	0.00	-1.73
552611	48211214	10100404	MONTVILLE POWER, LLC	PM-CON	1.24	0.00	0.00	-1.24
552611	48211614	10100404	MONTVILLE POWER, LLC	PM10-FIL	3.52	0.00	0.00	-3.52
552611	48211614	10100404	MONTVILLE POWER, LLC	PM25-FIL	2.57	0.00	0.00	-2.56
552611	48211614	10100404	MONTVILLE POWER, LLC	PM25-PRI	3.85	0.00	0.00	-3.84
552611	48211614	10100404	MONTVILLE POWER, LLC	PM-CON	1.28	0.00	0.00	-1.28
589711	48170914	20200203	ALGONQUIN POWER WINDSOR LOCKS	PM25-PRI	0.36	7.98	7.98	7.62
643411	48687314	10100404	PSEG FOSSIL LLC/ POWER CT LLC	PM10-FIL	0.15	0.00	0.00	-0.15
643411	48687314	10100404	PSEG FOSSIL LLC/ POWER CT LLC	PM25-FIL	0.10	0.00	0.00	-0.10
643411	48687314	10100404	PSEG FOSSIL LLC/ POWER CT LLC	PM25-PRI	7.96	0.00	0.00	-7.96
643411	48687314	10100404	PSEG FOSSIL LLC/ POWER CT LLC	PM-CON	7.85	0.00	0.00	-7.85
6732411	21477714	10100226	Omaha Public Power District - North Omaha Power Station	PM10-FIL	34.00	191.34	191.34	157.34
6732411	21477714	10100226	Omaha Public Power District - North Omaha Power Station	PM25-FIL	23.22	61.41	61.41	38.19
6732411	21477714	10100226	Omaha Public Power District - North Omaha Power Station	PM-CON	25.30	14.75	14.75	-10.56
715711	47533414	10100401	MIDDLETOWN POWER LLC	PM10-FIL	2.56	0.00	0.00	-2.56
715711	47533414	10100401	MIDDLETOWN POWER LLC	PM25-FIL	2.20	0.00	0.00	-2.20
715711	47533414	10100401	MIDDLETOWN POWER LLC	PM25-PRI	5.84	0.00	0.00	-5.84
715711	47533414	10100401	MIDDLETOWN POWER LLC	PM-CON	3.64	0.00	0.00	-3.64
715711	47533614	20100901	MIDDLETOWN POWER LLC	PM25-PRI	0.03	0.05	0.05	0.02
715711	47534114	10100404	MIDDLETOWN POWER LLC	PM10-FIL	8.83	0.02	0.02	-8.81
715711	47534114	10100404	MIDDLETOWN POWER LLC	PM25-FIL	6.44	0.01	0.01	-6.42
715711	47534114	10100404	MIDDLETOWN POWER LLC	PM25-PRI	9.64	0.02	0.02	-9.62
715711	47534114	10100404	MIDDLETOWN POWER LLC	PM-CON	3.20	0.00	0.00	-3.20
715711	47534314	10100401	MIDDLETOWN POWER LLC	PM10-FIL	3.18	0.00	0.00	-3.18
715711	47534314	10100401	MIDDLETOWN POWER LLC	PM25-FIL	2.74	0.00	0.00	-2.74
715711	47534314	10100401	MIDDLETOWN POWER LLC	PM25-PRI	7.28	0.00	0.00	-7.28
715711	47534314	10100401	MIDDLETOWN POWER LLC	PM-CON	4.54	0.00	0.00	-4.54
754311	47339614	10100401	PSEG PWR CT LLC/BPT HARBOR STA	PM10-FIL	0.01	0.02	0.02	0.01
754311	47339614	10100401	PSEG PWR CT LLC/BPT HARBOR STA	PM25-FIL	0.01	0.01	0.01	0.01
754311	47339614	10100401	PSEG PWR CT LLC/BPT HARBOR STA	PM25-PRI	0.54	0.02	0.02	-0.52
754311	47339614	10100401	PSEG PWR CT LLC/BPT HARBOR STA	PM-CON	0.53	0.00	0.00	-0.53
754311	47339814	10100212	PSEG PWR CT LLC/BPT HARBOR STA	PM10-FIL	28.06	0.00	0.00	-28.05
754311	47339814	10100212	PSEG PWR CT LLC/BPT HARBOR STA	PM25-FIL	7.32	0.00	0.00	-7.32
754311	47339814	10100212	PSEG PWR CT LLC/BPT HARBOR STA	PM25-PRI	159.79	0.00	0.00	-159.79
754311	47339814	10100212	PSEG PWR CT LLC/BPT HARBOR STA	PM-CON	152.47	0.00	0.00	-152.47
754511	47337014	20100201	BRIDGEPORT ENERGY LLC	PM25-PRI	0.73	3.87	3.87	3.13
754511	47337314	20100201	BRIDGEPORT ENERGY LLC	PM25-PRI	0.62	3.30	3.30	2.68
843611	49096614	10100404	NORWALK POWER, LLC	PM10-FIL	0.20	0.03	0.03	-0.17
843611	49096614	10100404	NORWALK POWER, LLC	PM25-FIL	0.13	0.03	0.03	-0.10
843611	49096614	10100404	NORWALK POWER, LLC	PM25-PRI	10.30	0.03	0.03	-10.27
843611	49096614	10100404	NORWALK POWER, LLC	PM-CON	10.17	0.00	0.00	-10.16
843611	49096814	10100404	NORWALK POWER, LLC	PM10-FIL	0.12	0.02	0.02	-0.10
843611	49096814	10100404	NORWALK POWER, LLC	PM25-FIL	0.08	0.01	0.01	-0.06

EIS Identifier	EIS Process Identifier	SCC	Site Name	Pollutant	EGUv15 (tons)	PMAUG (tons)	2008v2 (tons)	tonnage error diff (neg means v2 was under estimated)
843611	49096814	10100404	NORWALK POWER, LLC	PM25-PRI	5.98	0.02	0.02	-5.96
843611	49096814	10100404	NORWALK POWER, LLC	PM-CON	5.90	0.00	0.00	-5.90
844711	48272914	20100201	LAKE ROAD GENERATING CO, L.P.	PM25-PRI	0.63	9.00	9.00	8.36
844711	48273114	20100201	LAKE ROAD GENERATING CO, L.P.	PM25-PRI	0.66	12.55	12.55	11.88
844711	48273314	20100201	LAKE ROAD GENERATING CO, L.P.	PM25-PRI	0.50	22.66	22.66	22.15
920711	47357914	10100217	A E S THAMES, LLC	PM10-FIL	16.51	9.26	9.26	-7.24
920711	47357914	10100217	A E S THAMES, LLC	PM25-FIL	1.81	5.09	5.09	3.28
920711	47357914	10100217	A E S THAMES, LLC	PM25-PRI	43.41	5.38	5.38	-38.03
920711	47357914	10100217	A E S THAMES, LLC	PM-CON	41.60	0.28	0.28	-41.32
920711	47358114	10100217	A E S THAMES, LLC	PM10-FIL	16.38	7.33	7.33	-9.05
920711	47358114	10100217	A E S THAMES, LLC	PM25-FIL	1.80	2.78	2.78	0.98
920711	47358114	10100217	A E S THAMES, LLC	PM25-PRI	43.08	3.01	3.01	-40.08
920711	47358114	10100217	A E S THAMES, LLC	PM-CON	41.29	0.22	0.22	-41.06

Appendix B. Proportion of data sources by EIS sector for select pollutants

This Appendix shows the percentage of emissions from different data sources in 2008 NEI by pollutant and EIS sector. The data sources are grouped from the full suite of datasets used to compile the 2008 NEI. The groupings used to display the data are shown in Table B-1 below. See also Tables 7 and 8 in the main document for a list of the datasets also listed here in the groups used in the table below. Table B-2 provides the actual percentages by EIS sector, pollutant or pollutant group, and dataset group. The table is colored in hotter colors for higher percentages. True zeros are shown as white, while near-zeros are shown as blue with a zero value. Finally, Table

Table B-1: 2008 NEI input datasets and groups used for Table B-2

Dataset name	Group for Table B-2
2008 V2 Responsible Agency Selection	S/L/T
EPA NV Gold Mines	S/L/T
2008_EPA_MOBILE	EPA NP & Mob
EIAG all in NP	EPA NP & Mob
EPA CMV	EPA NP & Mob
EPA Correction Dataset - Nonroad	EPA NP & Mob
EPA Nonroad using NCD20100602	EPA NP & Mob
EPA Nonroad using NCD20101201	EPA NP & Mob
EPA Rail	EPA NP & Mob
EPAAirports1109	EPA NP & Mob
Rail_EPACorrections	EPA NP & Mob
EPA TRI Augmentation v2	TRI
2008 EPA Ag Fires	EPA other
2008 EPA Rule Data from OAQPS/SPPD	EPA other
2008EPA_MATS	EPA other
2008EPA_MMS	EPA other
EPA 2005NATA values pulled forward to gapfill	EPA other
EPA Chromium Split v2	EPA other
EPA coke oven	EPA other
EPA EGU v1.5	EPA other
EPA event data based on SFv2	EPA other
EPA HAP Augmentation v2	EPA other
EPA other data developed for using ahead of SLTor gapfilling	EPA other
EPA Overwrite Nonpoint v1.5	EPA other
EPA Overwrite Point v1.5	EPA other
EPA PM Augmentation NP	EPA other
EPA PM Augmentation V2	EPA other
EPA Possible Pt Source Contrib V1_5	EPA other
Misc NP Hg Cats	EPA other

Table B-2: Percentage of emissions from different data sources in 2008 NEI by pollutant and EIS sector

	CO			VOC			NOX			SO2			PM2.5			PM10			NH3			Total HAP				Acid Gases				HAP-VOC				HAP-Metals			
Sector	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	TRI	EPA other	S/L/T	EPA NP & Mob	TRI	EPA other	S/L/T	EPA NP & Mob	TRI	EPA other	S/L/T	EPA NP & Mob	TRI	EPA other			
Agriculture - Crops & Livestock Dust										13	78	9	14	77	9							100												100			
Agriculture - Fertilizer Application																23	77																				
Agriculture - Livestock Waste				100						100		0	100			22	78		100												100						
Bulk Gasoline Terminals	100			100			100			3		97	28		72	100			97		3	0			100		97		3		4		81	15			
Commercial Cooking	33	67		42	58		100			34	66		39	61					22	78							22	78									
Dust - Construction Dust	100			100			100			31	69	0	28	72	0			100	2		0	98					54			46		0	100				
Dust - Paved Road Dust										21	67	12	41	49	10																						
Dust - Unpaved Road Dust										11	89	0	13	87	0																						
Fires - Agricultural Field Burning	46		54	50		50	40		60	31		69	39		61	40		60	100			0	100				100				98			2			
Fires - Prescribed Burning	16		84	4		96	20		80	10		90	16		84	16		84	4		96	36					36			64							
Fires - Wildfires	1		99	0		100	1		99	0		100	1		99	1		99	0		100	93					93			7							
Fuel Comb - Comm/Institutional - Biomass	100		0	100		0	100		0	100		0	74		26	83		17	96		4	86		3	12	78			22	86		4	10	88	0	12	
Fuel Comb - Comm/Institutional - Coal	100		0	100		0	100		0	100		0	52		48	73		27	100		0	80		18	3	80		18	2	96		2	3	70	0	30	
Fuel Comb - Comm/Institutional - Natural Gas	100		0	100		0	100		0	100		0	84		16	87		13	93		7	83		5	13	97		3	83		5	13	51		12	36	
Fuel Comb - Comm/Institutional - Oil	100		0	100		0	100		0	100		0	87		13	89		11	100		0	16		84	0	2		98		97		2	1	70		19	11
Fuel Comb - Comm/Institutional - Other	100		0	100		0	100		0	100		0	59		41	72		28	100		0	98		1	0	100		0		97		3	0	96		1	3
Fuel Comb - Electric Generation - Biomass	94		6	97		3	97		3	100		0	26		74	67		33	96		4	69		2	30	71			29	66		3	31	75		25	
Fuel Comb - Electric Generation - Coal	98		2	97		3	98		2	98		2	41		59	48		52	39		61	4		0	96	3		0	97	36		0	63	4	0	96	
Fuel Comb - Electric Generation - Natural Gas	92		8	97		3	99		1	100		0	52		48	56		44	56		44	51		1	48	2		3	95	57		0	43	46	0	54	
Fuel Comb - Electric Generation - Oil	99		1	99		1	99		1	99		1	43		57	44		56	56		44	16		0	84	7		0	93	48		0	52	6	0	94	
Fuel Comb - Electric Generation - Other	100			100			100			100			46		54	55		45	86		14	88		0	12	86			14	95		2	3	75	0	25	
Fuel Comb - Industrial Boilers, ICEs - Biomass	100			100			100			100			71		29	79		21	100			66		20	14	74		10	16	59		27	14	90		1	9
Fuel Comb - Industrial Boilers, ICEs - Coal	100			100		0	100			100			49		51	65		35	72		28	71		12	18	71		11	18	60		32	8	53		5	42
Fuel Comb - Industrial Boilers, ICEs - Natural Gas	82		18	98		2	92		8	100		0	58		42	60		40	79		21	63		7	31	20		41	39	65		5	30	57		13	30
Fuel Comb - Industrial Boilers, ICEs - Oil	93		7	91		9	93		7	99		1	77		23	81		19	100		0	72		25	3	42		58		86		10	4	85		11	5
Fuel Comb - Industrial Boilers, ICEs - Other	100		0	100		0	100		0	100		0	11		89	14		86	100		0	93		7	1	88		11	1	95		5	0	62		30	7
Fuel Comb - Residential - Natural Gas	77	23		76	24		78	22		76	24		91	9		89	11		48	52		91	9		0					91	9			78			22
Fuel Comb - Residential - Oil	78	22	0	75	25	0	81	19	0	80	20	0	50	50	0	51	49	0	65	35	0	42	58		0				43	57		0	37	60		3	
Fuel Comb - Residential - Other	45	55		48	52		52	48		50	50		38	42	20	38	43	19	35	65		34	66		0	24	76			50	50			35	62		3
Fuel Comb - Residential - Wood	55	40	5	50	44	6	53	41	6	58	37	5	55	40	5	55	40	5	54	41	5	51	43		5	100			51	44		5	80	17		2	
Gas Stations	100			52	22	25	100			100			62		38	68		32	100			34	35	0	31				34	35	0	31	44	56		0	
Industrial Processes - Cement Manuf	100			100			100			100			46		54	48		52	100			91		9	0	91		9	93		7		81		11	7	
Industrial Processes - Chemical Manuf	100			100			100			100			26		74	46		54	100			78		22	0	97		3	77		23	0	57		33	10	
Industrial Processes - Ferrous Metals	100			100			100			100			13		87	36		64	100			65		32	3	73		27	66		34		50		38	12	
Industrial Processes - Mining	100			100			100			100			19	75	7	14	85	1	100			100		0	0	100		0	100		0	92		6	2		

	CO			VOC			NOX			SO2			PM2.5			PM10			NH3			Total HAP			Acid Gases			HAP-VOC			HAP-Metals						
Sector	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	EPA other	S/L/T	EPA NP & Mob	TRI	EPA other	S/L/T	EPA NP & Mob	TRI	EPA other	S/L/T	EPA NP & Mob	TRI	EPA other	S/L/T	EPA NP & Mob	TRI	EPA other			
Industrial Processes - NEC	100			100			100			100			41	59	61		39	100			88	11	1	85		8	7	86		14	0	69		20	11		
Industrial Processes - Non-ferrous Metals	100			100			100			100			19	81	39		61	100			73		27	0	83		17		54		46		80		16	4	
Industrial Processes - Oil & Gas Production	99		1	97		3	99		1	100		0	89	11	95		5	100			100		0	0	99		1		100		0	0	100		0	0	
Industrial Processes - Petroleum Refineries	100			100			100			100			44	56	55		45	100			86		13	0	90		10		86		14	0	88		9	3	
Industrial Processes - Pulp & Paper	100			100			100			100			27	73	49		51	100			84		16	0	83		17		84		16	0	78		19	3	
Industrial Processes - Storage and Transfer	100			68	32	0	100			100			27	73	58		42	100			64	29	7	0	99		1		62	31	7	0	49		48	3	
Miscellaneous Non-Industrial NEC	100	0		39	61		54	46		19	81		96	2	2	97	1	2	100			42	58		0	94	6			37	63			15	34		52
Mobile - Aircraft	22	78		36	64		15	85		15	85		39	61	0	21	79	0			35	65		0					37	63			4	96		0	
Mobile - Commercial Marine Vessels	3	97		4	96		3	97		3	97		2	98		2	98		3	97		6	94		0	100				7	93			1	99		0
Mobile - Locomotives	6	94		9	91		6	94		26	74		5	95		5	95		2	98		7	93			100				8	92			3	97		
Mobile - Non-Road Equipment - Diesel	34	66		39	61		35	65		28	72		29	71	0	30	70	0	9	91		23	77	0	0					23	77			14	80	6	0
Mobile - Non-Road Equipment - Gasoline	29	71		24	76		31	69		49	51		24	76	0	26	74	0	14	86		8	92							8	92			62	38		
Mobile - Non-Road Equipment - Other	32	68		31	69		32	68		12	88		23	77	0	23	77	0	100			59	41	0	0					60	40	0		100			0
Mobile - On-Road Diesel Heavy Duty Vehicles	10	90		10	90		11	89		0	100		6	94		7	93		1	99		17	83							18	82			14	86		
Mobile - On-Road Diesel Light Duty Vehicles	4	96		3	97		6	94		0	100		3	97		4	96		3	97		5	95							5	95			3	97		
Mobile - On-Road Gasoline Heavy Duty Vehicles	9	91		15	85		13	87		5	95		5	95		5	95		20	80		10	90							10	90			9	91		
Mobile - On-Road Gasoline Light Duty Vehicles	6	94		7	93		5	95		5	95		10	90		9	91		15	85		5	95							5	95			16	84		
Solvent - Consumer & Commercial Solvent Use	100			46	54		100			100			100			100			100			34	66		0	100				33	67			22			78
Solvent - Degreasing	100			100			100			100			75		25	95		5	100			98		2	0	100				98		2	0	97		0	3
Solvent - Dry Cleaning	100			66		34				100			93		7	100			100			100		0	0	100				100		0	0	69			31
Solvent - Graphic Arts	100			100			100			100			49		51	64		36	100			95		5	0	100				95		5		99		0	1
Solvent - Industrial Surface Coating & Solvent Use	100			96	4		100			100			43		57	71		29	100			86	8	6	0	95		5		85	9	6	0	56		16	28
Solvent - Non-Industrial Surface Coating				60	40														100			27	73							28	72						
Solvent - Industrial Surface Coating & Solvent Use	30	70		58	42		64	36		91	9		31	63	6	33	62	5	99	1		58	41	0	0	67	32	0	1	53	46	0	0	85		2	13
All sectors	17	59	24	37	36	27	41	57	2	90	7	2	19	44	36	19	67	14	25	68	7	45	43	1	11	25	2	3	70	46	46	1	7	33	25	9	32

Table B-3: Pollutants used in groups for Table B-2.

Group	Pollutant Code	Pollutant description
Acid Gases	7782505	Chlorine
Acid Gases	7647010	Hydrochloric Acid
Acid Gases	74908	Hydrogen Cyanide
Acid Gases	7664393	Hydrogen Fluoride
HAP-Metals	7440360	Antimony
HAP-Metals	7440382	Arsenic
HAP-Metals	7440417	Beryllium
HAP-Metals	7440439	Cadmium
HAP-Metals	7738945	Chromic Acid (VI)
HAP-Metals	7440473	Chromium
HAP-Metals	18540299	Chromium (VI)
HAP-Metals	16065831	Chromium III
HAP-Metals	1333820	Chromium Trioxide
HAP-Metals	7440484	Cobalt
HAP-Metals	7439921	Lead
HAP-Metals	7439965	Manganese
HAP-Metals	7439976	Mercury
HAP-Metals	593748	Methyl Mercury
HAP-Metals	7440020	Nickel
HAP-Metals	1313991	Nickel Oxide
HAP-Metals	604	Nickel Refinery Dust
HAP-Metals	12035722	Nickel Subsulfide
HAP-Metals	202	Particulate Divalent Mercury
HAP-Metals	7782492	Selenium
HAP-VOC	79345	1,1,2,2-Tetrachloroethane
HAP-VOC	79005	1,1,2-Trichloroethane
HAP-VOC	57147	1,1-Dimethyl Hydrazine
HAP-VOC	58899	1,2,3,4,5,6-Hexachlorocyclohexane
HAP-VOC	120821	1,2,4-Trichlorobenzene
HAP-VOC	96128	1,2-Dibromo-3-Chloropropane
HAP-VOC	122667	1,2-Diphenylhydrazine
HAP-VOC	106887	1,2-Epoxybutane
HAP-VOC	75558	1,2-Propylenimine
HAP-VOC	106990	1,3-Butadiene
HAP-VOC	542756	1,3-Dichloropropene
HAP-VOC	1120714	1,3-Propanesultone
HAP-VOC	106467	1,4-Dichlorobenzene
HAP-VOC	540841	2,2,4-Trimethylpentane
HAP-VOC	95954	2,4,5-Trichlorophenol
HAP-VOC	88062	2,4,6-Trichlorophenol
HAP-VOC	94757	2,4-Dichlorophenoxy Acetic Acid

Group	Pollutant Code	Pollutant description
HAP-VOC	51285	2,4-Dinitrophenol
HAP-VOC	121142	2,4-Dinitrotoluene
HAP-VOC	584849	2,4-Toluene Diisocyanate
HAP-VOC	53963	2-Acetylaminofluorene
HAP-VOC	532274	2-Chloroacetophenone
HAP-VOC	79469	2-Nitropropane
HAP-VOC	91941	3,3'-Dichlorobenzidine
HAP-VOC	119904	3,3'-Dimethoxybenzidine
HAP-VOC	119937	3,3'-Dimethylbenzidine
HAP-VOC	101144	4,4'-Methylenebis(2-Chloraniline)
HAP-VOC	101779	4,4'-Methylenedianiline
HAP-VOC	101688	4,4'-Methylenediphenyl Diisocyanate
HAP-VOC	534521	4,6-Dinitro-o-Cresol
HAP-VOC	92671	4-Aminobiphenyl
HAP-VOC	60117	4-Dimethylaminoazobenzene
HAP-VOC	92933	4-Nitrobiphenyl
HAP-VOC	100027	4-Nitrophenol
HAP-VOC	75070	Acetaldehyde
HAP-VOC	60355	Acetamide
HAP-VOC	75058	Acetonitrile
HAP-VOC	98862	Acetophenone
HAP-VOC	107028	Acrolein
HAP-VOC	79061	Acrylamide
HAP-VOC	79107	Acrylic Acid
HAP-VOC	107131	Acrylonitrile
HAP-VOC	107051	Allyl Chloride
HAP-VOC	62533	Aniline
HAP-VOC	71432	Benzene
HAP-VOC	92875	Benzidine
HAP-VOC	98077	Benzotrichloride
HAP-VOC	100447	Benzyl Chloride
HAP-VOC	57578	Beta-Propiolactone
HAP-VOC	92524	Biphenyl
HAP-VOC	117817	Bis(2-Ethylhexyl)Phthalate
HAP-VOC	542881	Bis(Chloromethyl)Ether
HAP-VOC	75252	Bromoform
HAP-VOC	133062	Captan
HAP-VOC	63252	Carbaryl
HAP-VOC	75150	Carbon Disulfide
HAP-VOC	56235	Carbon Tetrachloride
HAP-VOC	463581	Carbonyl Sulfide
HAP-VOC	120809	Catechol

Group	Pollutant Code	Pollutant description
HAP-VOC	133904	Chloramben
HAP-VOC	57749	Chlordane
HAP-VOC	79118	Chloroacetic Acid
HAP-VOC	108907	Chlorobenzene
HAP-VOC	510156	Chlorobenzilate
HAP-VOC	67663	Chloroform
HAP-VOC	107302	Chloromethyl Methyl Ether
HAP-VOC	126998	Chloroprene
HAP-VOC	1319773	Cresol/Cresylic Acid (Mixed Isomers)
HAP-VOC	98828	Cumene
HAP-VOC	72559	DDE (1,1-Dichloro-2,2-Bis(p-Chlorophenyl) Ethylene)
HAP-VOC	334883	Diazomethane
HAP-VOC	132649	Dibenzofuran
HAP-VOC	84742	Dibutyl Phthalate
HAP-VOC	111444	Dichloroethyl Ether
HAP-VOC	62737	Dichlorvos
HAP-VOC	111422	Diethanolamine
HAP-VOC	64675	Diethyl Sulfate
HAP-VOC	131113	Dimethyl Phthalate
HAP-VOC	77781	Dimethyl Sulfate
HAP-VOC	79447	Dimethylcarbamoyl Chloride
HAP-VOC	106898	Epichlorohydrin
HAP-VOC	140885	Ethyl Acrylate
HAP-VOC	100414	Ethyl Benzene
HAP-VOC	51796	Ethyl Carbamate Chloride
HAP-VOC	75003	Ethyl Chloride
HAP-VOC	106934	Ethylene Dibromide
HAP-VOC	107062	Ethylene Dichloride
HAP-VOC	107211	Ethylene Glycol
HAP-VOC	75218	Ethylene Oxide
HAP-VOC	96457	Ethylene Thiourea
HAP-VOC	151564	Ethyleneimine
HAP-VOC	75343	Ethylidene Dichloride
HAP-VOC	50000	Formaldehyde
HAP-VOC	76448	Heptachlor
HAP-VOC	118741	Hexachlorobenzene
HAP-VOC	87683	Hexachlorobutadiene
HAP-VOC	77474	Hexachlorocyclopentadiene
HAP-VOC	67721	Hexachloroethane
HAP-VOC	822060	Hexamethylene Diisocyanate
HAP-VOC	680319	Hexamethylphosphoramide
HAP-VOC	110543	Hexane

Group	Pollutant Code	Pollutant description
HAP-VOC	123319	Hydroquinone
HAP-VOC	78591	Isophorone
HAP-VOC	108316	Maleic Anhydride
HAP-VOC	108394	m-Cresol
HAP-VOC	67561	Methanol
HAP-VOC	72435	Methoxychlor
HAP-VOC	74839	Methyl Bromide
HAP-VOC	74873	Methyl Chloride
HAP-VOC	71556	Methyl Chloroform
HAP-VOC	74884	Methyl Iodide
HAP-VOC	108101	Methyl Isobutyl Ketone
HAP-VOC	624839	Methyl Isocyanate
HAP-VOC	80626	Methyl Methacrylate
HAP-VOC	1634044	Methyl Tert-Butyl Ether
HAP-VOC	75092	Methylene Chloride
HAP-VOC	60344	Methylhydrazine
HAP-VOC	108383	m-Xylene
HAP-VOC	121697	N,N-Dimethylaniline
HAP-VOC	68122	N,N-Dimethylformamide
HAP-VOC	98953	Nitrobenzene
HAP-VOC	62759	N-Nitrosodimethylamine
HAP-VOC	59892	N-Nitrosomorpholine
HAP-VOC	684935	N-Nitroso-N-Methylurea
HAP-VOC	90040	o-Anisidine
HAP-VOC	95487	o-Cresol
HAP-VOC	95534	o-Toluidine
HAP-VOC	95476	o-Xylene
HAP-VOC	56382	Parathion
HAP-VOC	106445	p-Cresol
HAP-VOC	123911	p-Dioxane
HAP-VOC	82688	Pentachloronitrobenzene
HAP-VOC	87865	Pentachlorophenol
HAP-VOC	108952	Phenol
HAP-VOC	75445	Phosgene
HAP-VOC	85449	Phthalic Anhydride
HAP-VOC	106503	p-Phenylenediamine
HAP-VOC	123386	Propionaldehyde
HAP-VOC	114261	Propoxur
HAP-VOC	78875	Propylene Dichloride
HAP-VOC	75569	Propylene Oxide
HAP-VOC	106423	p-Xylene
HAP-VOC	91225	Quinoline

Group	Pollutant Code	Pollutant description
HAP-VOC	106514	Quinone
HAP-VOC	100425	Styrene
HAP-VOC	96093	Styrene Oxide
HAP-VOC	127184	Tetrachloroethylene
HAP-VOC	108883	Toluene
HAP-VOC	95807	Toluene-2,4-Diamine
HAP-VOC	8001352	Toxaphene
HAP-VOC	79016	Trichloroethylene
HAP-VOC	121448	Triethylamine
HAP-VOC	1582098	Trifluralin
HAP-VOC	108054	Vinyl Acetate
HAP-VOC	593602	Vinyl Bromide
HAP-VOC	75014	Vinyl Chloride
HAP-VOC	75354	Vinylidene Chloride
HAP-VOC	1330207	Xylenes (Mixed Isomers)

Appendix C. Overwrite Dataset – EGU Units

The EGU overwrites in the “EPA Overwrite v1.5” dataset were developed to correct an issue in the Pennsylvania submitted data. We determined that PADEP submitted PM emissions labeled as "PM10-PRI" and PM25-PRI", but which actually only accounted for the FIL portion (no PM-CON). In addition to the emission estimates shown in attached, we also included "0.0" emission records in the overwrite dataset for all other EIS Process IDs at the same emission units, so that PADEP's other (small) process PM emissions would also not be selected. For those zero-outs, we added PM emissions for all 5 species of PM, so that they would also be selected rather than any values from the PM Augmentation dataset.

Table C-1 shows the non zero emissions in the EPA overwrite v1.5 dataset. Table C-2 provides a unit-level comparison of Pennsylvania data to EPA data.

Table C-1: Non-zero emissions in the EPA overwrite v1.5 dataset, process-level data

EIS Identifier	EIS Unit Identifier	EIS Process Identifier	SCC	County	Site Name	PM-CON (TON)	PM10-FIL (TON)	PM10-PRI (TON)	PM25-FIL (TON)	PM25-PRI (TON)
3865811	37166513	13754614	10100202	Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG POWER STA	838.3	102.8	941.1	45.6	884.0
3865811	37166313	13754814	10100202	Armstrong	ALLEGHENY ENERGY SUPPLY CO/ARMSTRONG POWER STA	596.5	73.1	669.7	32.5	629.0
3866111	37164713	13753314	10100202	Armstrong	GENON NE MGMT CO/KEYSTONE STA	4,316.1	163.2	4,479.3	42.6	4,358.7
3866111	37164513	13753614	10100202	Armstrong	GENON NE MGMT CO/KEYSTONE STA	4,404.3	166.6	4,570.9	43.4	4,447.8
3853711	37815013	13631614	10100202	Beaver	FIRSTENERGY GEN CORP/BRUCE MANSFIELD PLT	529.1	1,408.3	1,937.4	698.4	1,227.6
3853711	37815113	13631314	10100202	Beaver	FIRSTENERGY GEN CORP/BRUCE MANSFIELD PLT	587.7	1,564.3	2,152.1	775.8	1,363.6
3853711	37815213	13630714	10100202	Beaver	FIRSTENERGY GEN CORP/BRUCE MANSFIELD PLT	653.2	39.7	692.8	34.5	687.6
3857011	37799813	17184614	10100212	Berks	GENON REMA LLC/TITUS GEN STA	403.5	49.5	453.0	22.0	425.5
3857011	37800013	17184314	10100212	Berks	GENON REMA LLC/TITUS GEN STA	377.7	46.3	424.0	20.6	398.3
3857011	37799713	17184914	10100212	Berks	GENON REMA LLC/TITUS GEN STA	392.3	48.1	440.4	21.4	413.7
2980011	38531013	16463914	10100202	Chester	EXELON GEN CO/CROMBY GEN STA	90.2	9.6	99.7	9.5	99.7
2985011	38387013	17042414	10100202	Clearfield	GENON REMA LLC/SHAWVILLE GEN STA	676.6	82.9	759.5	36.8	713.4
2985011	38387913	17041314	10100202	Clearfield	GENON REMA LLC/SHAWVILLE GEN STA	750.6	92.0	842.6	40.9	791.5
2985011	38387313	17042114	10100202	Clearfield	GENON REMA LLC/SHAWVILLE GEN STA	966.8	118.5	1,085.3	52.6	1,019.5
2985011	38387813	17041514	10100202	Clearfield	GENON REMA LLC/SHAWVILLE GEN STA	1,015.3	124.5	1,139.7	55.3	1,070.5
6662011	17765313	13779914	10100212	Delaware	EXELON GENERATION CO/EDDYSTONE	130.2	13.8	144.0	13.7	143.9
6662011	17764413	93037214	10100212	Delaware	EXELON GENERATION CO/EDDYSTONE	133.7	14.2	147.9	14.1	147.8
3746611	37864513	13893414	10100202	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FERRY POWER STA	3,398.8	416.6	3,815.4	185.0	3,583.8
3746611	37864613	13893314	10100202	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FERRY POWER STA	3,460.4	424.2	3,884.6	188.4	3,648.8
3746611	37864713	13893114	10100202	Greene	ALLEGHENY ENERGY SUPPLY CO/HATFIELDS FERRY POWER STA	3,476.8	426.2	3,903.0	189.3	3,666.0
2905911	38673013	13718414	10100202	Indiana	GENON NE MGMT CO/CONEMAUGH PLT	459.8	27.9	487.7	24.3	484.1
2905911	38672213	13719414	10100202	Indiana	GENON NE MGMT CO/CONEMAUGH PLT	601.6	149.0	750.6	38.9	640.5
3005111	67474613	93066514	10100218	Indiana	GENON WHOLESALE GEN/SEWARD GEN STA	105.8	84.6	190.4	9.9	115.6

EIS Identifier	EIS Unit Identifier	EIS Process Identifier	SCC	County	Site Name	PM-CON (TON)	PM10-FIL (TON)	PM10-PRI (TON)	PM25-FIL (TON)	PM25-PRI (TON)
3005111	67474713	93066714	10100218	Indiana	GENON WHOLESALE GEN/SEWARD GEN STA	90.3	72.2	162.5	8.4	98.7
3005211	38366513	13552114	10100202	Indiana	EME HOMER CITY GEN LP/ CENTER TWP	3,073.8	376.8	3,450.6	167.3	3,241.1
3005211	38366413	13552214	10100202	Indiana	EME HOMER CITY GEN LP/ CENTER TWP	3,838.5	470.5	4,309.0	208.9	4,047.4
3005211	38366713	93066314	10100202	Indiana	EME HOMER CITY GEN LP/ CENTER TWP	405.6	482.3	888.0	214.2	619.8
3776611	37249213	13668214	10100202	Lawrence	GENON POWER MIDWEST LP/NEW CASTLE POWER PLT	363.3	44.5	407.8	19.8	383.0
3776611	37249013	13668514	10100202	Lawrence	GENON POWER MIDWEST LP/NEW CASTLE POWER PLT	340.5	41.7	382.2	18.5	359.0
3776611	37249513	13667914	10100202	Lawrence	GENON POWER MIDWEST LP/NEW CASTLE POWER PLT	598.1	73.3	671.5	32.6	630.7
4742711	27702713	14219714	10100101	Luzerne	UGI DEVELOPMENT CO/HUNLOCK CREEK	345.3	42.3	387.6	18.8	364.1
3881111	37158713	13680514	10100202	Montour	PPL MONTOUR LLC/MONTOUR SES	357.9	88.6	446.5	23.1	381.0
3881111	37158913	13680314	10100202	Montour	PPL MONTOUR LLC/MONTOUR SES	500.3	123.9	624.2	32.3	532.6
3881811	37150013	13619414	10100201	Northampton	GENON REMA LLC/PORTLAND GENERATING STA	674.3	82.7	756.9	36.7	711.0
3881811	37150113	13619114	10100201	Northampton	GENON REMA LLC/PORTLAND GENERATING STA	1,448.5	177.6	1,626.1	78.8	1,527.3
4737311	27901813	93184414	10100202	Snyder	SUNBURY GENERATION LP/SUNBURY SES	370.5	1.7	372.2	1.7	372.1
4737311	27902513	93184514	10100202	Snyder	SUNBURY GENERATION LP/SUNBURY SES	348.4	1.6	350.0	1.6	349.9
4737311	27901713	93184614	10100202	Snyder	SUNBURY GENERATION LP/SUNBURY SES	367.4	1.7	369.1	1.6	369.1
4737311	27902413	93184714	10100202	Snyder	SUNBURY GENERATION LP/SUNBURY SES	311.6	1.5	313.0	1.4	313.0
4737311	27902613	14619214	10100202	Snyder	SUNBURY GENERATION LP/SUNBURY SES	706.8	2.2	709.0	1.5	708.3
4737311	27901913	14620814	10100202	Snyder	SUNBURY GENERATION LP/SUNBURY SES	762.0	2.4	764.4	1.7	763.7
3894811	37444713	14715414	10100202	Washington	ALLEGHENY ENERGY SUPPLY CO/MITCHELL POWER STA	153.7	182.8	336.6	81.2	234.9
3895011	37443813	14713114	10100202	Washington	GENON PWR MIDWEST LP/ELRAMA POWER STA	61.9	41.4	103.3	32.7	94.6
3193911	38702513	14416114	10100202	York	PPL BRUNNER ISLAND LLC/BRUNNER ISLAND	1,387.8	52.5	1,440.3	13.7	1,401.5
3193911	38702613	14416014	10100201	York	PPL BRUNNER ISLAND LLC/BRUNNER ISLAND	1,297.0	49.0	1,346.0	12.8	1,309.8
3193911	38702013	14356114	10100202	York	PPL BRUNNER ISLAND LLC/BRUNNER ISLAND	2,932.0	110.9	3,042.8	28.9	2,960.9

Table C-2 compares the Pennsylvania Department of the Environment (PADEP) data to the EPA data from the EPA Overwrite Point v1.5 dataset that was used to overwrite the PA data.

Table C-2: Comparison of Pennsylvania agency-submitted

State/ County FIPS Code	EIS Id	Unit Desc.	EIS Unit Id	PADEP PM10- PRI TONS	EPA PM10-PRI TONS	EPA PM-CON TONS	EPA PM10- FIL TONS	PADEP PM25-PRI TONS	EPA PM25-PRI TONS	EPA PM25- FIL TONS
42005	3866111	BOILER 2 WITH LOW NOX BURNER	37164513	426	4,571	4,404	167	142	4,448	43
42005	3866111	BOILER 1 WITH LOW NOX BURNER	37164713	569	4,479	4,316	163	213	4,359	43
42063	3005211	BOILER NO.2 (UNIT 2)	38366413	875	4,309	3,838	471		4,047	209
42059	3746611	BABCOCK & WILCOX BOILER 3	37864713	1,253	3,903	3,477	426	543	3,666	189
42059	3746611	BABCOCK & WILCOX BOILER 2	37864613	1,214	3,885	3,460	424	525	3,649	188
42059	3746611	BABCOCK & WILCOX BOILER 1	37864513	1,148	3,815	3,399	417	497	3,584	185
42063	3005211	BOILER NO.1 (UNIT 1)	38366513	361	3,451	3,074	377		3,241	167
42133	3193911	BRUNNER ISLAND UNIT 3	38702013	1,333	3,043	2,932	111		2,961	29
42007	3853711	FOSTER WHEELER UNIT 2	37815113	218	2,152	588	1,564	57	1,364	776
42007	3853711	FOSTER WHEELER UNIT 1	37815013	201	1,937	529	1,408	53	1,228	698
42095	3881811	UNIT 2 W/LOW NOX BURNERS	37150113	86	1,626	1,448	178	37	1,527	79
42133	3193911	BRUNNER ISLAND UNIT 2	38702513	529	1,440	1,388	52		1,401	14
42133	3193911	BRUNNER ISLAND UNIT 1	38702613	1,167	1,346	1,297	49		1,310	13
42033	2985011	UTILITY BOILER - UNIT 4	38387813	141	1,140	1,015	124	61	1,071	55
42033	2985011	UTILITY BOILER - UNIT 3	38387313	135	1,085	967	119	58	1,019	53
42005	3865811	FOSTER WHEELER BOILER 1	37166513	24	941	838	103	2	884	46
42063	3005211	BOILER NO.3 (UNIT 3)	38366713	487	888	406	482		620	214
42033	2985011	UTILITY BOILER - UNIT 2	38387913	114	843	751	92	49	791	41
42109	4737311	FOSTER WHEELER BOILER (4)	27901913	20	764	762	2	5	764	2
42033	2985011	UTILITY BOILER - UNIT 1	38387013	181	760	677	83	78	713	37
42095	3881811	UNIT 1 W/LOW NOX BURNERS	37150013	38	757	674	83	16	711	37
42063	2905911	BOILER 2 (UNIT 2)	38672213	527	751	602	149	269	640	39
42109	4737311	FOSTER WHEELER BOILER (3)	27902613	18	709	707	2	5	708	2
42007	3853711	FOSTER WHEELER UNIT 3	37815213	298	693	653	40	78	688	34
42073	3776611	BABCOCK & WILCOX - BOILER 5	37249513	84	671	598	73	36	631	33
42005	3865811	FOSTER WHEELER BOILER 2	37166313	45	670	597	73	5	629	32
42093	3881111	CE BOILER - UNIT 2	37158913	758	624	500	124		533	32
42063	2905911	BOILER 1 (UNIT 1)	38673013	233	488	460	28	119	484	24
42011	3857011	UNIT 1	37799813	77	453	403	49	33	425	22
42093	3881111	CE BOILER - UNIT 1	37158713	587	447	358	89		381	23
42011	3857011	UNIT 3	37799713	78	440	392	48	34	414	21
42011	3857011	UNIT 2	37800013	74	424	378	46	32	398	21
42073	3776611	BABCOCK & WILCOX - BOILER 3	37249213	12	408	363	45	5	383	20
42079	4742711	FOSTER WHEELER BOILER 6	27702713	290	388	345	42	248	364	19
42073	3776611	BABCOCK & WILCOX - BOILER 4	37249013	11	382	340	42	5	359	19
42109	4737311	FOSTER WHEELER BOILER (1A)	27901813	12	372	370	2	3	372	2
42109	4737311	FOSTER WHEELER BOILER (2A)	27901713	12	369	367	2	3	369	2
42109	4737311	FOSTER WHEELER BOILER (1B)	27902513	11	350	348	2	3	350	2
42125	3894811	MITCHELL UNIT 3 (BOILER 33)	37444713	175	337	154	183	79	235	81
42109	4737311	FOSTER WHEELER BOILER (2B)	27902413	10	313	312	1	3	313	1
42063	3005111	CFB BOILER 1	67474613	74	190	106	85	22	116	10
42063	3005111	CFB BOILER 2	67474713	68	163	90	72	20	99	8
42045	6662011	BOILER 2	17764413	84	148	134	14	45	148	14
42045	6662011	BOILER 1	17765313	75	144	130	14	40	144	14
42125	3895011	NO. 4 BOILER	37443813	51	103	62	41	24	95	33
42029	2980011	BOILER 1	38531013	51	100	90	10	29	100	10